



**U.S. DEPARTMENT OF ENERGY  
OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY**

# **TRIBAL ENERGY PROJECT MANAGEMENT**



**Peer Review**

**January 13-14, 2004**

**Lizana Pierce**

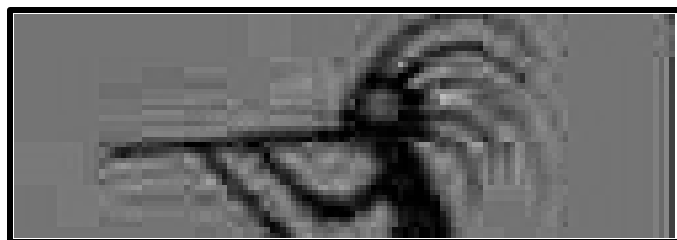
**DOE, Golden Field Office**



DOE's Tribal Energy Program

# **Tribal Energy Program**

**Providing financial and technical assistance to Tribes for feasibility studies and sharing the cost of implementing sustainable renewable energy projects on Tribal Lands**



## **Authority**

**Section 2606 of Title XXVI Energy Policy Act of 1992 (P.L. 102-486)**



**DOE's Tribal Energy Program**

# **Tribal Energy Program**

## **Tribes defined as:**

- **Federally-recognized Tribes;**
- **Alaska Native villages; and**
- **Alaskan Native Corporations.**

**Tribal Lands include Indian reservations; Public domain Indian allotments; Former Indian reservations in Oklahoma; Land held by under the provisions of the Alaska Native Claims Settlement Act (43 U.S.C. 1601 et seq.); and Lands held in fee simple or under a Federal land lease.**



## DOE's Tribal Energy Program

# Tribal Energy Program Organization

Program Management through DOE Headquarters, implementation through the DOE Golden Field Office, and technical support through the DOE's Laboratories.

### Program Management

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**Thomas Sacco**  
Weatherization and Intergovernmental Program  
Office of Energy Efficiency and Renewable Energy (EERE)  
Department of Energy, HQ

### Field Implementation

DOE Golden Field Office  
Project Manager, Tribal Energy Program  
**Lizana Pierce**  
(303) 275-4727

### Technical Assistance

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**Sandra Begay-Campbell**  
(505) 844-5418

National Renewable Energy Laboratory  
**Roger Taylor**  
(303) 384-7389



**DOE's Tribal Energy Program**

# **Tribal Energy Program Organization**

## **Roles and Responsibilities**

### **Project Management (DOE, Golden Field Office)**

**Field implementation for administering and managing partnerships with Tribal Governments**

- Issue solicitations
- Manage resulting projects
- Promote the Program
- Leverage other Federal resources
- Facilitates coordination among other field organizations
- Provide technology transfer and information dissemination



DOE's Tribal Energy Program

# **Tribal Energy Program**

## **Project Management**

- ✓ **Competitive Solicitation Process**
- ✓ **Project Tracking**
- ✓ **Project Overview**
- ✓ **Project Accomplishments**



**Solar Installation on  
Navajo Nation**



**DOE's Tribal Energy Program**

# **Tribal Energy Program**

## **Competitive Solicitation**

- ✓ **Planning with Indian Country**
- ✓ **Preparation of the Solicitation**
- ✓ **Announcements – FRN, CBD, Website, Indian Country Newspaper, Indian Report, Mass Emails, Mass Mailings**
- ✓ **Pre-Application Conferences**
- ✓ **Proposal Writing Workshop**
- ✓ **Submittal of Applications**
- ✓ **Evaluation & Selection**
- ✓ **Negotiation and Award**



2.0 KW PV Array for Dulce  
High School on Jicarilla  
Apache Reservation



**DOE's Tribal Energy Program**

# **Tribal Energy Program**

## **Competitive Solicitation**

### **Planning with Indian Country**

- ✓ **Peer Review (November 2001)**
- ✓ **Strategy Session (December 2001)**

### **Preparation of the Solicitation**

- ✓ **Priorities**
- ✓ **Congressional Language**
- ✓ **Available Funding**



**Solar Education Trailer**  
**Oneida Nation (Wisconsin)**





**DOE's Tribal Energy Program**

# **Tribal Energy Program**

## **Competitive Solicitation**

### **Announcement**

- ✓ **Federal Register Notice and Commerce Business Daily**
- ✓ **Tribal Energy Website Posting**
- ✓ **Indian Country Newspaper**
- ✓ **Indian Report**
- ✓ **Email Notification (Contact Dbase)**
- ✓ **Mass Mailings (570+ Tribes)**



Solar Installation at Pueblo  
of Laguna's Majors Ranch  
in New Mexico



**DOE's Tribal Energy Program**

# **Tribal Energy Program**

## **Competitive Solicitation**

### **Pre-Application Conference**

- ✓ **Conference (March 2002)**
- ✓ **Proposal Writing Workshop**

### **Submittal of Applications**

- ✓ **Electronic Submittal (President's E-Gov Initiative)**



Solar Installation at Pueblo  
of Laguna's Majors Ranch



**DOE's Tribal Energy Program**

# **Tribal Energy Program**

## **Competitive Solicitation**

### **Evaluation and Selection**

- ✓ **Compliance Screening**
- ✓ **Preliminary Technical Review**
- ✓ **Independent Review by Type, Technology and Category**
- ✓ **Merit Review for Consensus**
- ✓ **Reviewers from DOE, Industry, Laboratories, Indian Country, and Other Federal agencies (20+)**



Turbine Installed at  
Rosebud Sioux  
Reservation in South  
Dakota



# **Tribal Energy Program Accomplishments**

## **Tribes Funded**

- **Over last decade, total of 90 Tribal energy projects funded at \$17 million**
- **Total of 62 Tribes funded (10.8% of all 570+ Tribes and Alaska Villages)**
- **Total of 57 Tribes funded in contiguous 48 States (22.4% of 254 Tribes)**
- **Funded 7 of the 34 Tribal Colleges and Universities (20.6%)**



# **DOE's Tribal Energy Program**

# **Tribal Energy Program**

## **Project Tracking**

### **Annual Project Reviews**

- ✓ **Project Review Meeting (October 2002)**
- ✓ **Project Review Meeting (November 2003)**

### **Site Visits**

- ✓ **On-going**
- Rosebud Sioux Reservation,  
July 4 Celebration**

### **Reporting**

- ✓ **Quarterly Technical and Financial Reporting**
- ✓ **Summary Status and Final Reports Posted on Tribal Energy Website**





# **Tribal Energy Program**

## **(FY2002-FY2003)**



DOE's Tribal Energy Program

# **Tribal Energy Program**

**Providing Financial and Technical Assistance to Tribes for Feasibility Studies and Sharing the Cost of Implementing Sustainable Renewable Energy Projects on Tribal Lands**

**Per the Energy and Water Development (E&WD)  
Conference Language:**

***“The conference agreement includes \$3,000,000 for renewable Indian energy resources. The conferees expect these funds to be administered as competitively awarded grants to federally-recognized tribes throughout the United States.”***



## **DOE's Tribal Energy Program**

# **Tribal Energy Program**

**Eligibility restricted to Federally-recognized Tribes on whose Tribal Lands the projects will be located.**

➤ **Tribes include:**

- **Federally-recognized Tribes;**
- **Alaska Native villages; and**
- **Alaskan Native Corporations.**

➤ **Tribal Lands include:**

- **Indian reservations;**
- **Public domain Indian allotments;**
- **Former Indian reservations in Oklahoma;**
- **Land held by under the provisions of the Alaska Native Claims Settlement Act (43 U.S.C. 1601 et seq.); and**
- **Lands held in fee simple or under a Federal land lease.**





**DOE's Tribal Energy Program**

# **Funding Opportunities (FY2002)**

## **Renewable Energy Development on Tribal Lands**

**Solicited financial assistance applications from Federally-recognized Tribes or Alaskan Native Corporations to either:**

- **Conduct feasibility studies for renewable energy installations on Tribal lands (no cost share required);**  
**or**
- **Develop economically sustainable renewable energy projects (20% cost share required).**



**DOE's Office of Energy Efficiency and Renewable Energy**

# **Tribal Energy FY2002 Projects**

**TOTAL OF 22 PROJECTS TOTALING \$4.6 MILLION  
FUNDED FROM FY2002 SOLICITATION**

## **Renewable Energy Projects (Funded FY2002)**

- 12 Feasibility Studies in 12 States (\$900,000)
- 2 Development Projects in 2 States (\$2,200,000)

## **Renewable Energy Projects (Funded FY2003)**

- 8 Feasibility Studies in 8 States (\$1,500,000)

**Northern Cheyenne Nation  
Wind Resource Assessment**





# Tribal Energy Projects

**TOTAL OF 22 PROJECTS TOTALING \$4.6 MILLION  
FUNDED FROM FY2002 SOLICITATION**

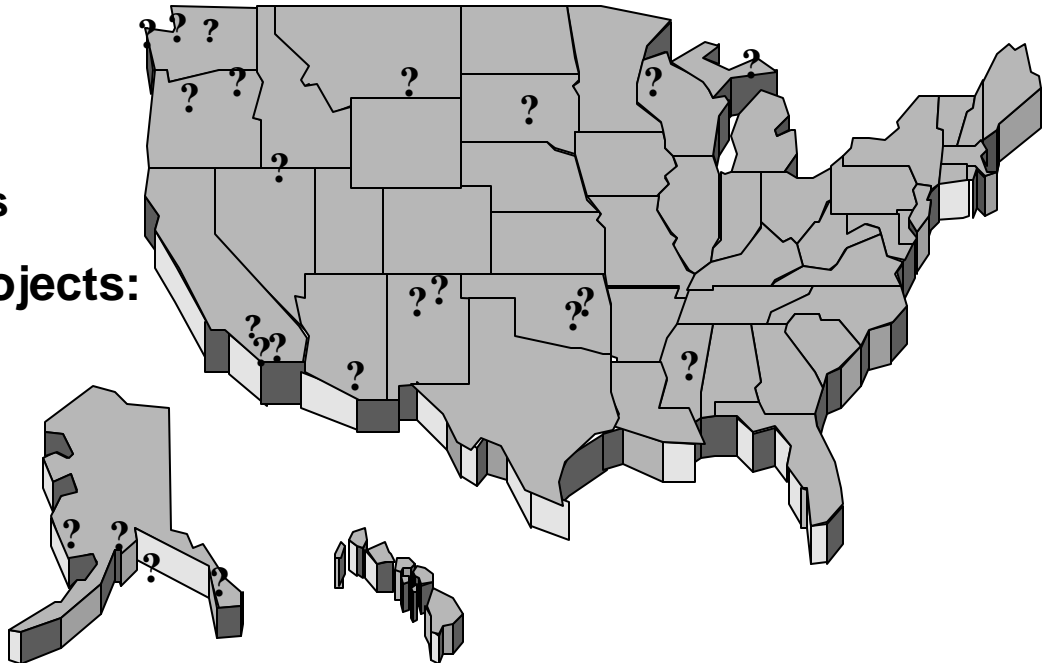
## **FY2002 Funded Projects:**

? = 12 Feasibility Studies

? = 2 Developmental Projects

## **FY2003 Funded FY2002 Projects:**

? = 8 Feasibility Studies





# DOE's Office of Energy Efficiency and Renewable Energy **FY2002 Tribal Energy Projects**

## **Colville Confederate Tribes (WA)**

Umatilla Indian Reservation (OR)

Confederate Tribes of Warm Springs (OR)

Kaw Nation of Oklahoma (OK)

Makah Tribe (WA)

Manzanita Band of Mission Indians (CA)

Mississippi Band of Choctaw Indians (MI)

Northern Cheyenne Nation (MT)

Sealaska Native Corporation (AK)

Pueblo of Jemez (NM)

**Ramona Band of Cahuilla Mission Indians  
(CA)**

Sault Ste. Marie Tribe (MI)

White Mountain Apache Tribe (AZ)

Yukon-Kuskokwim Health Corporation (AK)

Bristol Bay Native Corporation (AK)

Cherokee Nation (OK)

Lower Brule Sioux Tribe (SD)

Shoshone Paiute Tribes (NV)

St. Croix Tribal Government (WI)

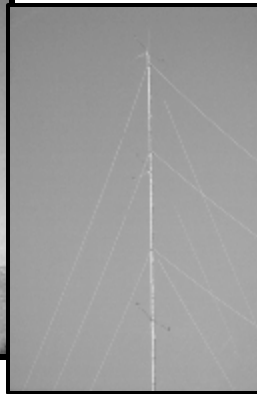
Taos Pueblo (NM)

Tulalip Tribe (WA)

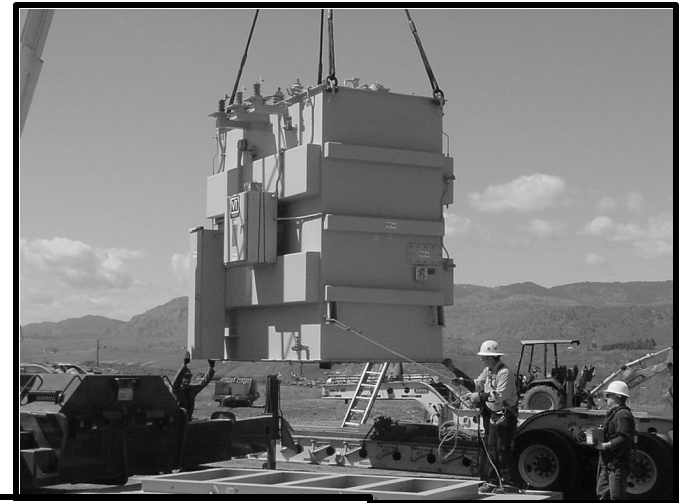
Viejas Tribal Government (CA)

# FY2002 Renewable Energy Projects

## Northern Cheyenne Nation Wind Resource Assessment



## Kaw Nation Wind Resource Assessment



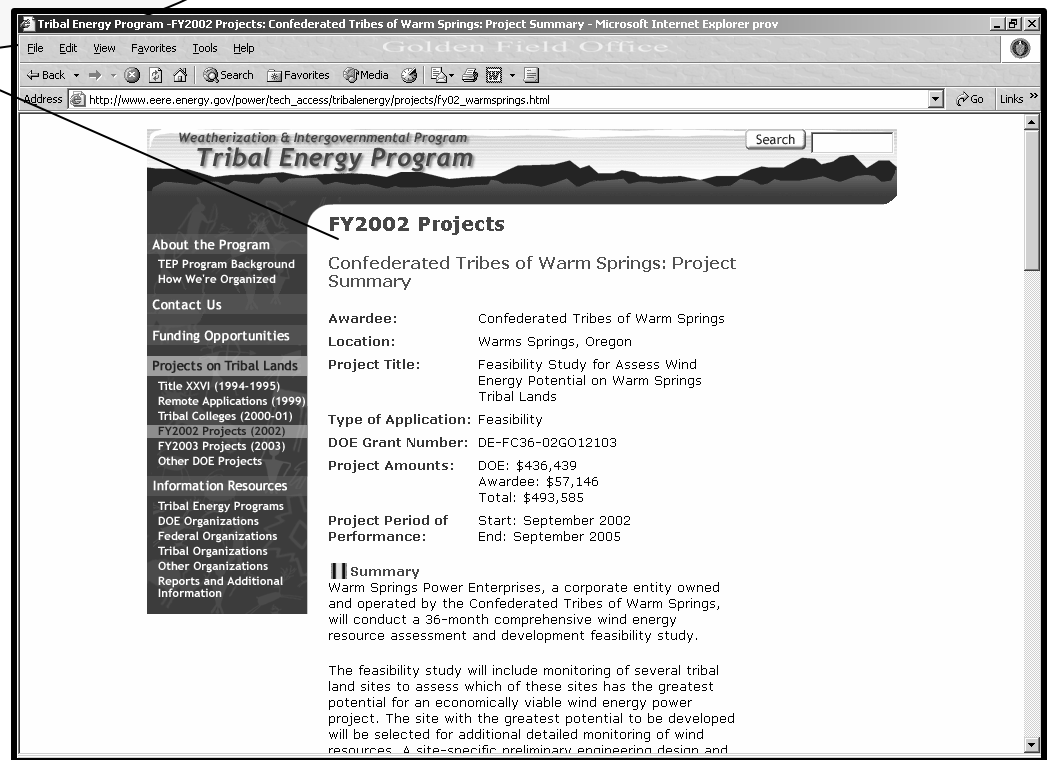
## Colville Indian Power and Veneer Energy Substation

# Tribal Energy Web Site

## Confederated Tribes of Warm Springs: Project Summary

### Includes:

- Award Information
- Project Summary
- Objectives
- Project Scope
- Project Location
- Status
- Contacts

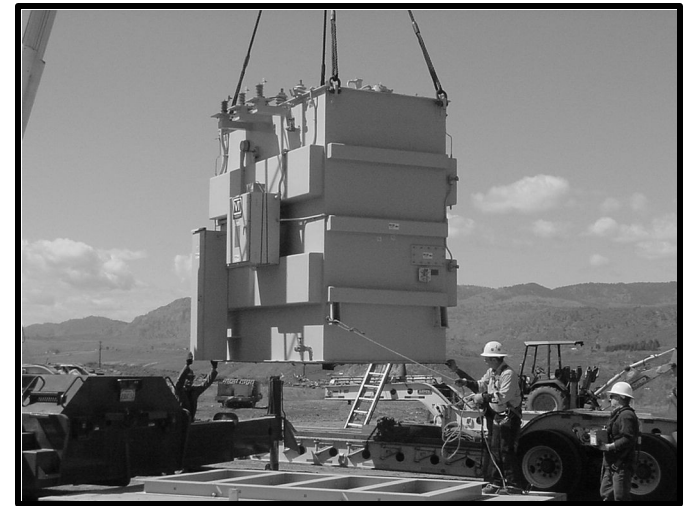


Tribal Energy Program [www.eere.energy.gov/tribalenergy](http://www.eere.energy.gov/tribalenergy)

# **Tribal Energy Program Accomplishments**

## **FY2002 TRIBAL ENERGY PROJECTS**

- **Twenty-two (22) projects funded at \$4.56 million dollars**
- **DOE funds of \$4.56 million leveraged by \$887,500 (16%) cost share**
- **Cost share exceeds minimum required by 88% (20% required for development projects only)**
- **Installation of substation completed (Colville Nation)**



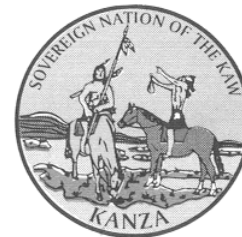
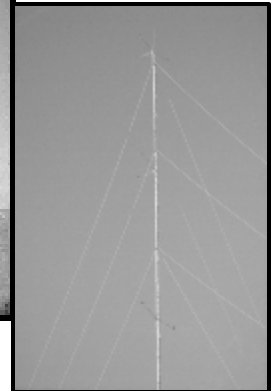
**Colville Indian Power and  
Veneer Energy Substation**



# **Tribal Energy Program Accomplishments**

## **FY2002 TRIBAL ENERGY PROJECTS**

- **White Mountain Apache biomass feasibility study completed**
- **Northern Cheyenne Nation proceeding to pre-development of 30 MW wind farm**
- **Makah Nation proceeding to pre-development of 30 MW wind farm**
- **20 anemometers installed with data collection on-going**



**Kaw Nation  
Wind Resource  
Assessment**



**DOE's Tribal Energy Program**

# **Funding Opportunities (FY2003)**

## **First Steps Toward Developing Renewable Energy and Energy Efficiency**

- Strategic planning
- Energy options analysis
- Capacity building
- Organizational development



## **Renewable Energy Development on Tribal Lands**

- Feasibility studies
- Development projects (cost shared)

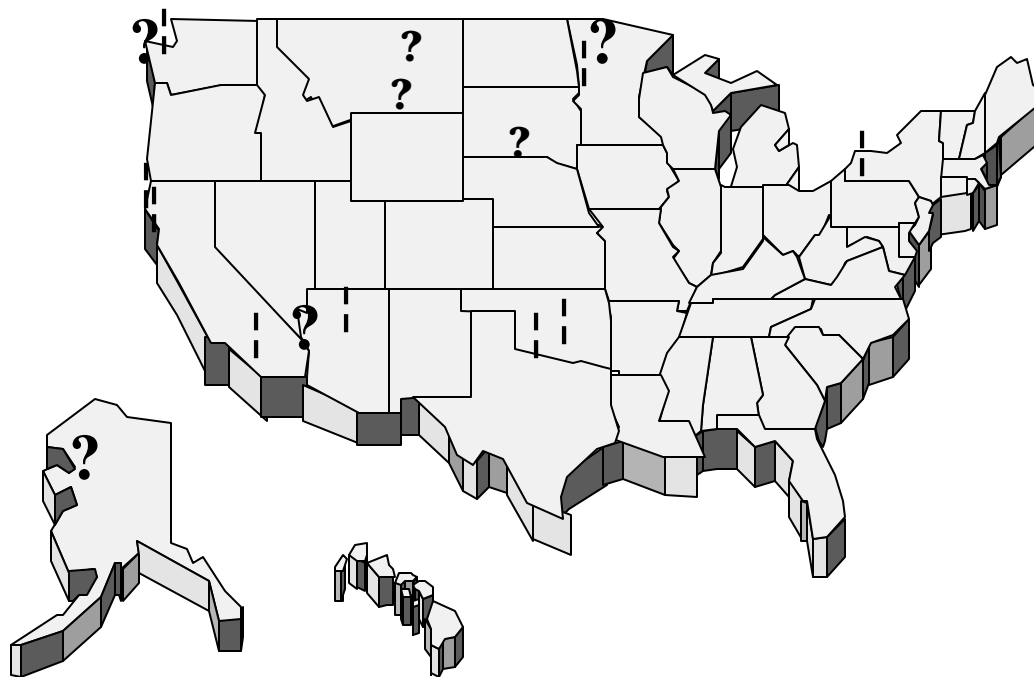


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## DOE Awarded \$2.9 Million to 16 Tribal Clean Energy Projects in FY2003

### FY2003 PROJECTS:

- ? 3 DEVELOPMENTAL PROJECTS
- ? 4 FEASIBILITY STUDIES
- ! 9 FIRST STEPS STUDIES





# **FY2003 Tribal Energy Projects**

## **Seven Projects in 6 States**

**Rosebud Sioux Tribe (SD)**

Native Village of Venetie (AK)

**Northern Cheyenne Tribe, Inc. (MT)**

The Makah Indian Nation (WA)

**Assiniboine & Sioux Tribes of the Fort  
Peck Reservation (MT)**

Red Lake Band of Chippewa Indians (MN)

Fort Mojave Tribe (AZ)

## **Nine First Step Studies in 6 States**

The Hopi Tribe (AZ)

Citizen Potawatomi Nation (OK)

Smith River Rancheria (CA)

Fort Sill Apache Tribe of Oklahoma (OK)

Cabazon Band of Mission Indians (CA)

Yurok Tribe (CA)

Seneca Nation of Indians (NY)

Samish Indian Nation (WA)

White Earth Reservation (MN)



# **Tribal Energy Program Accomplishments**

## **FY2003 TRIBAL ENERGY PROJECTS (2003)**

- Three (3) development, four (4) feasibility and nine (9) “First Steps” projects awarded Aug/Sep 2003
- DOE funds of \$2.9 million leveraged by \$1,057,480 (27%) cost share
- Cost share exceeds minimum required by 156%
- Project plans presented at Tribal Energy Project Review (November 2003)





# **Tribal Energy Program Accomplishments**

## **Applications Funded (FY2002-FY2003)**

- **Funded all 22 applications (100%) considered of merit under the FY2002 solicitation (59% of all applications received).**
- **In FY2003, funded 7 of the 17 applications (41%) recommended by the Merit Review Committee (MRC). Plans to fund an additional 7 in FY2004 (82%) for a total of 23% of all applications.**
- **Funded all 9 “First Steps” applications (100%) recommended by the MRC in FY2003 (43% of all applications received).**



# **Tribal Energy Program Accomplishments**

## **Tribes Funded (FY2002-FY2003)**

- **Funded 38 tribal energy projects at \$7.5 million**
- **Total of 35 Tribes funded (6% of all 570+ Tribes and Alaska Villages)**
- **Increased the number of applications received by 119% (37 received in FY2002 and 81 in FY2003)**
- **Received applications from over 100 different Tribes**



# **Tribal Energy Program Accomplishments**

- **DOE funds leveraged by \$1.93 million (20%) in cost share (630% above minimum required)**
- **Additional 660 kW of wind power planned Spring 2004**
- **Potential of an additional 90 MW of installed wind power on Tribal Lands**